

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B05B1/20 B05B15/06 F02C3/30

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

 $\label{lem:minimum} \begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{B05B} & \mbox{F02C} & \mbox{A01M} & \mbox{F16L} \end{array}$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## EPO-Internal

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Υ	GB 2 382 847 A (ALSTOM) 11 June 2003 (2003-06-11) page 11, line 16 - page 12, line 25; figure 5	1-4,7,8, 10-12, 15,16
<b>Y</b> .	US 2 605 140 A (BARTLING LOREN E) 29 July 1952 (1952-07-29) column 1, line 1 - line 5; figures column 2, line 1 - line 22	1-4,7,8, 10-12,15
Α	US 2001/003312 A1 (SPIEGEL RICHARD V) 14 June 2001 (2001-06-14)  paragraph '0014! - paragraph '0017!; figure 1	1,2,5,9, 10,12, 15,16

Further documents are listed in the continuation of box C.	γ Patent family members are listed in annex.		
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul> <li>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>*&amp;* document member of the same patent family</li> </ul>		
Date of the actual completion of the international search	Date of mailing of the international search report		
17 November 2004	25/11/2004		
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. 31 651 epo ni,  Fax: (+31–70) 340–3016	Authorized officer  de Rooij, M		



		Fe1/182004/002044
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 2 540 405 A (HOLDER GMBH CO GEBR) 10 August 1984 (1984-08-10) page 5, line 13 - line 28; figure 2	7-11,15, 16
A	GB 493 451 A (DEWANDRE CO LTD C; SYDNEY EDGAR WILLETT; WILLIAM MILLER CALLA) 7 October 1938 (1938-10-07) the whole document	7,9-12, 15
Υ	FR 2 539 056 A (DEBRECENI MEZOEGAZDASAGI) 13 July 1984 (1984-07-13)	1,16
A	abstract page 6, line 21 - page 7, line 35; figure 1	7-12,15
Α	EP 1 108 870 A (DOW CHEMICAL CO) 20 June 2001 (2001-06-20) abstract; figures 1,3-5 paragraphs '0001!, '0008! paragraph '0100! - paragraph '0116!	1,4,7,8
A	US 2002/100819 A1 (CHAPPLE ANDREW CHARLES ET AL) 1 August 2002 (2002-08-01) paragraph '0013! - paragraph '0015!; figures 1,5 paragraph '0019! - paragraph '0022! paragraph '0053! paragraph '0082! - paragraph '0085!	1,3,4,7

## nformation on patent family members



					004/ 002044
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
GB 2382847	Α	11-06-2003	WO EP	03048545 A1 1454045 A1	12-06-2003 08-09-2004
US 2605140	Α	29-07-1952	NONE		
US 2001003312	A1	14-06-2001	WO US	9719311 A1 5992515 A	29-05-1997 30-11-1999
FR 2540405	Α	10-08-1984	FR	2540405 A3	10-08-1984
GB 493451	Α	07-10-1938	NONE		
FR 2539056	A	13-07-1984	DE FR	3247048 A1 2539056 A1	20-06-1984 13-07-1984
EP 1108870	A	20-06-2001	US US EP AT AU BR CN DE DK EP ES JP RU WO TW	5930990 A 5867977 A 1108870 A2 225906 T 725901 B2 3211097 A 9709317 A 2254922 A1 1219217 A ,B 69716259 D1 69716259 T2 898645 T3 0898645 A1 2181003 T3 2000510544 T 898645 T 2178532 C2 9743530 A1 385352 B	03-08-1999 09-02-1999 20-06-2001 15-10-2002 26-10-2000 05-12-1997 09-05-2000 20-11-1997 09-06-1999 14-11-2002 18-09-2003 10-02-2003 03-03-1999 16-02-2003 15-08-2000 28-02-2003 20-01-2002 20-11-1997 21-03-2000
US 2002100819	A1	01-08-2002	US AU BR CA EP WO	6375089 B1 4148101 A 0108351 A 2400086 A1 1255614 A1 0160525 A1	23-04-2002 27-08-2001 15-04-2003 23-08-2001 13-11-2002 23-08-2001